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- 1 **Engineering and hosting adaptive freshness-sensitive web application**  
Wen-Syan Li, Oliver Po, Wang: Pin Hsiung, K. Selçuk Candan, Divyakant Agrawal, May 2003 **WWW '03**: Proceedings of the 12th international conference on  
**Publisher:** ACM

Full text available: Pdf (10.31 MB)

Additional Information: [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 40, Citation

Wide-area database replication technologies and the availability of content Web applications to be hosted and served from powerful data centers. This support requires a complete Web application suite to be ...

**Keywords:** database-driven web applications, dynamic content, fresh work latency, web acceleration

- 2 **WRex: a scalable middleware architecture to enable XML caching for**  
Junichi Tatemura, Oliver Po, Arsany Sawires, Divyakant Agrawal, K. Selçuk November 2005 **Middleware '05**: Proceedings of the ACM/IFIP/USENIX 2005 on Middleware

**Publisher:** Springer-Verlag New York, Inc.

Full text available: Pdf (572.38 KB)

Additional Information: [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 4, Citation C

Web service caching, i.e., caching the responses of XML web service request designing scalable web service architectures. Such caching of dynamic content maintaining the caches appropriately to reflect dynamic updates to the

**Keywords:** XML views, XML-relational mapping, caching, path expression

- 3 **Database change notifications: primitives for efficient database query**  
Cesar Galingo-Legaria, Torsten Grabs, Christian Kleinerman, Florian Waas August 2005 **Vldb '05**: Proceedings of the 31st international conference on  
**Publisher:** VLDB Endowment

Full text available: Pdf (168.27 KB)

Additional Information: [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 16, Citation

Many database applications implement caching of data from a back-end repeated round trips to the back-end and to improve response times for example, consider a web application that caches *dynamic web* ...

- 4 **Communications of the ACM: Volume 52 Issue 7**

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July 2009 Communications of the ACM

**Publisher:** ACM

Full text available:  Digital Edition ,  Pdf (7.61 MB) Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 938, Downloads (12 Months): 938, Citations

## 5 Challenges and practices in deploying web acceleration solutions for systems



Wen-Syuan Li, Wang-Pin Hsiung, Oliver Po, Koji Hino, Kasim Seicuk Candan

May 2004 **WWW '04: Proceedings of the 13th international conference on**

**Publisher:** ACM

Full text available:  Pdf (6.61 MB) Additional Information: [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 87, Citations

For most Web-based applications, contents are created dynamically bas business, such as product prices and inventory, stored in database syst demand and personalized content and track user behavior while ...

**Keywords:** application server, dynamic content, edge server, fragment scalability, web acceleration

## 6 Model-driven development of Web applications: the AutoWeb system



Piero Fraternali, Paolo Paolini

October 2000 **Transactions on Information Systems (TOIS)** , Volume 18 I

**Publisher:** ACM 

Full text available:  Pdf (6.94 MB) Additional Information: [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 116, Downloads (12 Months): 397, Citations

This paper describes a methodology for the development of WWW appli environment specifically tailored for the methodology. The methodology environment are based upon models and techniques already used in the

**Keywords:** HTML, WWW, application, development, intranet, modeling

## 7 Building efficient and effective metasearch engines



Weiyi Meng, Clement Yu, King-Lup Liu

March 2002 **Computing Surveys (CSUR)** , Volume 34 Issue 1

**Publisher:** ACM 

Full text available:  Pdf (416.07 KB) Additional Information: [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 36, Downloads (12 Months): 374, Citations

Frequently a user's information needs are stored in the databases of mlt inconvenient and inefficient for an ordinary user to invoke multiple sear useful documents from the returned results. To support ...

**Keywords:** Collection fusion, distributed collection, distributed informat resource discovery, metasearch

## 8 Tools and approaches for developing data-intensive Web application



Piero Fraternali

September 1999 **Computing Surveys (CSUR)** , Volume 31 Issue 3

**Publisher:** ACM 


Full text available:  Pdf (524.80 KB) Additional Information: [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 56, Downloads (12 Months): 545, Citations: 1

The exponential growth and capillar diffusion of the Web are nurturing e-applications, characterized by a direct business-to-customer relationship. The development of e-applications is a hybrid between traditional IS development ...


**Keywords:** HTML, Intranet, WWW, application, development

## 9 Enhancing interactive web applications in hybrid networks

 Aruna Balasubramanian, Brian Neil Levine, Arun Venkataraman

September 2008 **MobiCom '08: Proceedings of the 14th ACM international conference on mobile computing and networking**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (678.78 KB)

**Additional Information:** [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 33, Downloads (12 Months): 390, Citations: 1

Mobile Internet users have several options today including high bandwidth such as 3G, that may be the choice for many. However, the ubiquity of mobile Internet is an attractive alternative, namely, opportunistic use of ...

**Keywords:** application, mobile networking, testbed, web search


## 10 Labels and event processes in the Asbestos operating system

 Steve Vandeboogart, Petros Elstathopoulos, Eddie Kohler, Maxwell Krohn, C

Frans Kaashoek, Robert Morris, David Mazières

December 2007 **Transactions on Computer Systems (TOCS)**, Volume 25

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (1.21 MB)

**Additional Information:** [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 184, Citations: 1

Asbestos, a new operating system, provides novel labeling and isolation to contain the effects of exploitable software flaws. Applications can experiment with Asbestos's kernel-enforced labels, including controls ...


**Keywords:** Information flow, labels, mandatory access control, process servers

## 11 Affinity-based management of main memory database clusters

 Minwen Ji

November 2002 **Transactions on Internet Technology (TOIT)**, Volume 2

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (553.96 KB)

**Additional Information:** [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 67, Citations: 1

We study management strategies for main memory database clusters in Internet applications and back-end databases as content caches. The task is to allocate data across individual cache databases and to route queries ...

**Keywords:** Main memory database, clustering, database administration, organization, query affinity, scalability

## 12 Data structures for efficient broker implementation

-  Anthony Tamasic, Luis Gravano, Calvin Lue, Peter Schwarz, Laura Haas  
 July 1997 **Transactions on Information Systems (TOIS)** , Volume 15 Iss:  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Pdf (316.45 KB) **Additional Information:** [full citation](#), [abstract](#), [ref review](#)  
**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 35, Citation




With the profusion of text databases on the Internet, it is becoming incr most useful databases for a given query. To attack this problem, severa systems employ brokers to direct user queries, using a local ...

**Keywords:** GLOSS, broker architecture, broker performance, distribute, partitioned hashing

- 13 [Flash crowd mitigation via adaptive admission control based on appl](#)  
 Xuan Chen, John Heidemann  
 August 2005 **Transactions on Internet Technology (TOIT)** , Volume 5 Issu  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Pdf (979.43 KB) **Additional Information:** [full citation](#), [abstract](#), [ref](#)  
**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 75, Citatio


We design an adaptive admission control mechanism, *network early wa* protect servers and networks from flash crowds and maintain high perf NEWS detects flash crowds from performance degradation in responses

**Keywords:** Flash crowds, admission control, experimentation with test

- 14 [WSQ/DSQ: a practical approach for combined querying of database:](#)  
 Roy Goldman, Jennifer Widom  
 June 2000 **SIGMOD '00: Proceedings of the 2000 ACM SIGMOD internatio**  
 Management of data  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Pdf (223.65 KB) **Additional Information:** [full citation](#), [abstract](#), [ref](#)  
**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 57, Citatio

We present WSQ/DSQ (pronounced "wisk-disk"), a new approach for co of traditional databases with existing search engines on the Web. WSQ, (*Database*) *Queries*, leverages results from Web ...


Also published in:  
 June 2000 **SIGMOD Record** Volume 29 Issue 2

- 15 [Cooperative XPath caching](#)  
 Kostas Liliis, Evangelia Pitoura  
 June 2008 **SIGMOD '08: Proceedings of the 2008 ACM SIGMOD internatio**  
 Management of data  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Pdf (1.04 MB) **Additional Information:** [full citation](#), [abstract](#), [ref](#)  
**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 248, Citatio

Motivated by the fact that XML is increasingly being used in distributed building a cooperative caching scheme for XML documents. Our scheme content among a number of peers. To facilitate sharing, a distributed ...


**Keywords:** cache, peer-to-peer systems, xml

## 16 Estimating frequency of change

 Jungho Cho, Hector Garcia-Molina

August 2003 **Transactions on Internet Technology (TOIT)** , Volume 3 Issue 3

**Publisher:** ACM  [Request Permissions](#)


Full text available:  Pdf (353.56 KB) **Additional Information:** [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 126, Citation

Many online data sources are updated autonomously and independently the case for estimating the change frequency of data to improve Web or help data mining. We first identify various scenarios, where ...

**Keywords:** Change frequency estimation, Poisson process

## 17 YouServ: a web-hosting and content sharing tool for the masses

 Roberto J. Bayardo Jr., Rakesh Agrawal, Daniel Gruhl, Amit Somani

May 2002 **WWW '02: Proceedings of the 11th international conference on World Wide Web**

**Publisher:** ACM


Full text available:  Pdf (238.48 KB) **Additional Information:** [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 58, Citation

YouServ is a system that allows its users to pool existing desktop computing resources for web hosting and file sharing. By exploiting standard web and HTTP and DNS), YouServ does not require those who ...


**Keywords:** decentralized systems, p2p, peer-to-peer networks, web hosting

## 18 Compact, adaptive placement schemes for non-uniform requirement

 Andre Brinkmann, Kay Salzweid, Christian Scheidele

August 2002 **SPAA '02: Proceedings of the fourteenth annual ACM symposium on Principles of Distributed Systems**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (244.99 KB) **Additional Information:** [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 28, Citation

In this paper we study the problem of designing compact, adaptive strategies for placing objects among a heterogeneous set of servers. Ideally, such a strategy should compute the position of an object with a low time and ...


**Keywords:** RAID, adaptive hashing, balls into bins, distributed data structures, random graphs, web caching

## 19 Cache for workflows

 Ian Taylor, Andrew Harrison, Carlo Mastrolanni, Matthew Shields

June 2007 **WORKS '07: Proceedings of the 2nd workshop on Workflows in Information Systems**

**Publisher:** ACM

Full text available:  Pdf (313.54 KB) **Additional Information:** [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 65, Citation

This paper discusses the motivation for the design of a decentralised data cache for workflows.

Internet scale distributed computing applications. We provide three target distributed cycle sharing applications, music information retrieval ...


**Keywords:** P2P, grouping, super peers, web services, workflow

**20** An end-to-end approach to globally scalable programmable network

 Micah Beck, Terry Moore, James S. Plank

August 2003 **FDNA '03**: Proceedings of the ACM SIGCOMM workshop on Future network architecture

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (447.96 KB) [Additional Information: full citation, abstract, ref](#)

**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 56, Citation

The three fundamental resources underlying Information Technology are computation. The goal of wide area infrastructure is to provision these resources for applications within a community. The end-to-end principles provide ...





**Keywords:** Internet Backplane Protocol, Logistical Network Computing, asynchronous communications, distributed state management, end-to-end storage, programmable networking, scalability, store and forward network

Also published in:

October 2003 **SIGCOMM Computer Communication Review** Volume 33 Issue

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